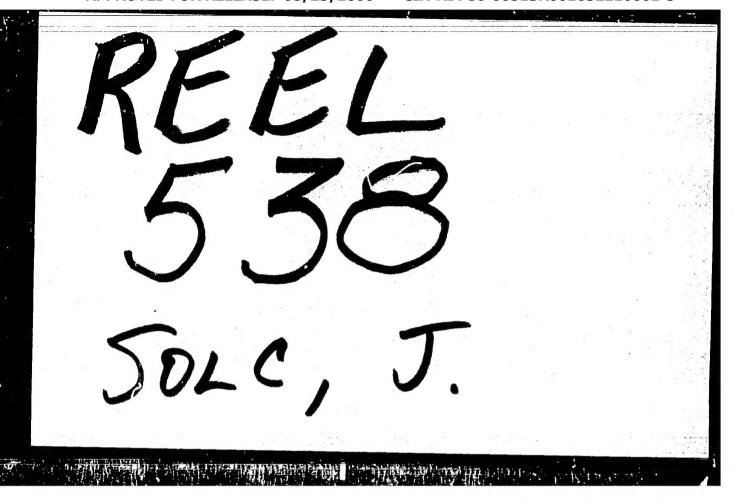


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CIA-RDP86-00513R001652210001-3



CZECH/34-59-4-3/18 Hybek, K., Ing., Solc, J., Ing. and Zezulova, M., Ing. AUTHORS:

Economical Cr-Mn-Ni-N Alloy Austenitic Stainless Steels TITIE: (Úsporné austenitické nerezavějící ocele Cr-Mn-Ni-N)

Hutnické Listy, 1959, Nr 4, pp 287 - 297 PERIODICAL:

(Czechoslovakia)

ABSTRACT: On the basis of literary data, two laboratory series of melts of Cr-Mn-Ni-N steels were produced. The results obtained with the steels from the first laboratory series of melts were not encouraging enough to recommend use of such steel as an equivalent substitute for Cr-Ni steel. By evaluating the results of ten 100 kg laboratory melts and supplementing these with information gained on the influence of the quentity of nitrogen on the structure from tests with 10 kg melts, the authors have worked out the following recommendation for the chemical composition: max 0.12% C, 8-10% Mn, max 0.60% Si, 17-19% Cr, 4.0-5.0% Ni, 0.20-0.30% N, max 0.035% S, max 0.035% P. According to this recommendation, two 3-ton heats were produced under shop conditions and these confirmed the correctness

of the assumptions made by the authors. The produced steel Card1/3 had a stable austenitic structure not only at normal

CZECH/34-59-4-3/18

who had become for the period of the development of the

Economical Cr-Mn-Ni-N Alloy Austenitic Stainless Steels

that it is a promising substitute for ordinary Cr-Ni steels in various branches of industry, for instance, the building industry, automobile and aircraft industries, etc. There are 18 figures, 7 tables and 18 references, 4 of which are German, 9 English and 5 Czechoslovakian.

ASSOCIATION: Výzkumný ústav hutnictví železa, Praha

(Ferrous Metallurgy Research Institute, Prague)

SUBMITTED: January 9, 1959

Card 3/3

36

PHASE I BOOK EXPLOITATION

507/5799

Unksov, Ye.P., Doctor of Technical Sciences, Frofessor, Ed.

Sovremennoye sostoyeniye kuznechno-shtempovochnogo proizvodstva (Present State of the Presevorking of Metals) [Moscov] Mashgiz, 1961. 434 p. 5000 copies printed.

Ed. of Publishing House: A.I. Sirotin; Tech. Ed.: B.I. Model; Managing Ed. for Literature on the Hot Working of Metals: S.Ya. Golovin, Engineer.

Title: Kuznechno-shtampovochnoye proizvedstvo v SSSR (The Pressworking of Metals in the USSR) by: A.V. Altykis, D.I. Berezhkovskiy, V.F. Volkovitskiy, I.I. Girsh (deceased), L.D. Gol'man, S.P. Granovskiy, N.S. Debrinskiy, A.I. Zimin, S. L. Zlotnikov, A.I. Kagalovskiy, P.V. Lobachev, V.H. Martynov, Ye.N. Moshnin, G.A. Navrotskiy, Ya.M. Okhrimenko, G.H. Rovinskiy, Ye.A. Stocha, Yu.L. Rozhdestvenskiy, N.V. Tithomirov, Ye.P. Unksov, V.F. Shcheglov, and L.A. Shofman; Eds: Ye.P. Unksov, Doctor of Technical Sciences, Professor, and B.V. Rozanov.

Title: Kuznechno-shtampovochnoye proizvodstvo v ChSSR (The Pressworking of Metals in the Czechoslovak SR) by: S. Burda, F. Hrazdil, F. Drastik, F. Zlatohlávek

Card 1/8

Precent State of the (Cont.)

SC#/5799

Z. Kejval, V. Krauz, F. Kupka, F. Hajor, K. Harvan, J. Hováz, J. Odchnal, K. Paul, B. Scamer, H. Honz, J. Cástka, V. Sindelar, and J. Sole; Els.: A. Hejersa and M. Vlk.

PURTCOZ: This book is intended for engineers and scientific personnel concerned with the preseworking of metals.

COVERAGE: Published jointly by Hashgiz and SHTL, the book discusses the present state of the preservorking of metals in the USSR and the Czechoslovek Socialist Republic. Chapters were written by both Seviet and Czechoslovak writers. No personalities are mentioned. There are 129 references: 98 Soviet, 16 English, 8 German, 5 Czech, and 2 Prench.

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Z/034/61/000/003/002/011 E073/E535

to the secretary and the di

AUTHORS :

Solc J., Engineer, Zezulová, M., Engineer and Zdenek, Zd., Engineer

TIPLES

Development of Non-ageing, Deep Drawing Steels for Heavy Duty Presslings

PERIODICAL: Hutnické listy, 1961, No.3, pp.159-168

TEXT: The problems of manufacturing deep drawing sheets for automobile bodies have been solved and a vanadium stabilized steel has been developed for this purpose (Refs. 1 and 2). At present VUHZ, jointly with SONP, Kladno is engaged in developing an ageing-resistant deep drawing steel of a higher strength and in this paper a part of the obtained results are published. Due to economic considerations and practical manufacturing considerations, it was decided to manufacture the experimental steel in an oxygen blast converter. Current production of steel in oxygen blast converters will be possible in Czechoslovakia only towards the end of the Third Five Year Plan period; however, the authors considered it advisable to verify the possibilities of manufacture of an experimental 5-ton unit and to determine the optimum chemical composition which would give the desired results. The specification for the Card 1/4

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Development of Non-ageing, Deep ... Z/034/61/000/003/002/011 E073/E535

chemical composition was worked out on the basis of the Austrian "Altank" steel manufactured by the firm Voëst, the composition of which approaches most closely the desired composition, which was chosen so as to obtain a steel with a minimum strength of 36 and a maximum strength of $42~{\rm kg/mm^2}$. Thus, the chosen chemical composition is as follows: 0.10 to 0.12% C. 0.30 to 0.45% Mn. 0.05 to 0.10% S1, 0.07 to 0.10% A1, max.0.030% P, max.0.030% S. The range and method of forming was governed by the available equipment and also by the desire to manufacture material for The required shapes of the sheets did practical pressing tests. not allow cold rolling; therefore, the experimental material was manufactured primarily as hot rolled sheet and in this stage of the investigations cold rolling was done only to get some qualitative The steel was manufactured in a basic 5 m information. The oxygen was converter lined with tar-dolomite refractory. fed in from the top through a water-cooled nozzle of 20 mm aperture Two heats were produced, both from open hearth pig, of a composition as given in Table 33

Card 2/4

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Development of Non-ageing, Deep ... 2/034/61/000/003/002/011 E073/E535

results have shown that an oxygen blast converter is suitable for manufacturing high strength deep drawing steels which are resistant to ageing; a non-ageing steel with satisfactory mechanical properties was obtained. It is emphasized that the results are those of a single heat and have to be verified by further experiments. The problems cannot be considered fully solved and further experiments have to be made on cold rolled sheets. The mechanical properties of the tested material approached those determined for the Austrian steel "Altank", which was included in the experiments for the purpose of comparison.

There are 21 figures, 9 tables and 9 references: 4 Czech and 5 non-Czech.

ASSOCIATIONS: VUHZ. Prague (Sole and Zezulová) and

SONP, Kladno (Zdenek)

SUBMITTED:

November 18, 1960

Card 4/4

Development of Non-ageing, Deep ... Z/034/61/000/003/002/011 E073/E535

Table 3

	С	Mn	Si in %	P	S
 228 229		1.60 1.68	0.94	0.208 0.176	0.074

The produced steel was then used for rolling 1.5, 2, 2.5 and 3 mm thick sheets. These were subjected to metallographic investigation, aimed primarily at determining the grain size, with comparative investigations made on specimens of the Austrian steel "Altank". Furthermore, the produced sheets were used for determining the mechanical properties after various heat treatment conditions. Finally, practical tests were made with the experimental sheets to establish their deep drawing behaviour. The sheets were used experimentally for manufacturing pressed automobile body parts for which the scrap rate under normal manufacturing conditions is highest. A few photographs of such drawn components are included. Wherever possible foreign manufactured sheet was also included in the experiments for the purpose of comparison. The

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18.5100

AUTHOR:

šolc. J.

TITLE:

Determination of the appropriate technology of cold

rolling of 1000 mm wide strip

PERIODICAL: Hutnické listy, 1961, No.5, p.362

The research report deals with the cold rolling technology of strips from all the applicable high grade steels listed in the Czechoslovak standard specifications. About 100 types of steel have been analysed. The report is based on published data and also on knowledge gained from all the Czechoslovak plants who cold roll strip or produce and heat treat the particular steels. The report deals with the properties of hot and cold rolled strip, the basic and intermediate heat treatment, and heat treatment of cold rolled strip and also with the rolling and surface treatment of strip. In a short summary, up-to-date manufacturing equipment is described, recommending a technology, and also manufacturing specifications applicable to the enumerated equipment. Thereby, the assumed quantity to be manufactured and strip dimensions are taken into consideration. A separate part

Card 1/2

89417 Z/032/61/011/004/002/004 E073 'E335

18.1130

AUTHORS: Hýbek, K., Šolc, J. and Zezulová, M., Engineers

TITLE: State of Development of CrMnNiN-type Austenitic

Economy Steels

PERIODICAL: Strojfrenství, 1961, Vol. 11, No. 4, pp. 275 - 282

TEXT: The main aim of development of economy steels of this type was to save or completely substitute Ni. A break-through was achieved only after combining successfully the use of Mn with N. The combined used of these two elements enabled developing CrMnNiN steels which are suitable as a replacement for unstabilised CrNi steel (ČSN 17 241). Steels of this type are the US steels AISI 201 and 202 and the CrMnN steel described in an article in the 1958, No. 8, issue of this journal, which has so far not been included in the Czech standard specifications. In this paper the results are described of the development of economy austenitic steels which were achieved at VÚHZ with the cooperation of VZKG and TZ VŘSR Stalingrad Works. The problem was investigated independently Card 1/12

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by K. Protiva (Ref. 4 - Hutnfk, 1959, Vol.9, No. 12, pp. 396-399) (SONP, Kladno) in cooperation with SVUMT, Prague (Ref. 6 - B. Potucek: Economy Stainless CrNiMnN austenitic Steels MTS - Technical Report 201, Prague, 1960). The results are described only briefly, except for the properties of the steel and the experience gained during fabrication, which are described in greater detail. In preliminary experiments it was established that the chemical composition for production heats should be as follows: max. 0.12% C; 8-10% Mn; 17-19% Cr; 4-5% Ni; max. 0.035% S; max 0.035% P and 0.20-0.30% N. Two 3-ton heats were produced, one with a Ni content at the lower limit, the other at the higher limit. That the metallurgical process was satisfactory was proved by the process of casting and solidification during which the steel was not effervescent. That the correct forming technology was used was proved by the fact that for the selected sheet thicknesses of 1 and 2.4 mm the surface of the sheets was perfect. Thereby, the fact that the Card 2/12

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austenitic structure was stable even at higher forming temperatures was of great help. Metallographic tests showed that steel from both heats had a purely austenitic structure, both in the as-rolled state as well as after structure austenisation amealing at 1 030 to 1 050 °C, the optimum austenisation temperature being 1 000 to 1 100 the higher limit there was no grain coarsening. tests gave good results and therefore this steel is recommended for consumer goods, i.e. kitchenware, dairy equipment and other food-industry applications as well as for components which are exposed to severe atmospheric conditions (for instance, railway carriages). The results of the mechanical tests are summarised in Tables 2, 3, 4 and 5. Table 2 gives the mechanical properties of 9 sheets from both heats, taken at random; the further tables indicate the effect of heat-treatment. The developed steel is fully equivalent to similar foreign steel and is superior as regards ductility. Weldability in the case of oxyacetylene, arc and argon-arc welding is good. The machineability is classified as 11b. It is particularly favourable to Card 3/12

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State of Development ...

machine this material at elevated temperatures. However, the steel has to be protected against work hardening by pressure, bending, etc; if these peculiarities are taken into consideration, no difficulty will arise in machining this steel. The steel can be very satisfactorily polished both mechanically and by electrolytic methods. The forming properties are very good. In experiments with good-quality equipment reduction in the cold state of up to 90% without intermediate annealing was achieved, which means that from a sheet of 2.5 mm thickness a sheet of only 0.25 mm can be produced without intermediate annealing. Deep-drawing tests in producing pots and other kitchenware and also plates of a pasteurising column showed that the steel had very good forming properties. No difficulties arose in cutting, rolling, austenisation annealing, grinding and polishing of products from this steel. The main advantage of the recently developed CrMnNiN economy steel is the fact that its introduction into industry does not require any considerable change compared with the manufacture of current types of stainless steels, although slight changes

Card 4/12

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State of Development

in technology will be required in view of the higher strength values of this steel. From the technological point of view, the steel will also have a number of advantages. It was confirmed experimentally that the austenitic structure remained stable up to 1 260 $^{\circ}$ C, even if the Ni content was at the lowest limit. If the content of the austenite-forming elements was at the upper limit no two-phase structure developed even after two hours heating at 1 300 °C. On exceeding the austenisation temperature, for which the range 1 030 to 1 050 °C/min/air (the time was determined for sheet) was chosen in view of the increased tendency to scaleformation for steels containing Mn, no undesirable change in the mechanical properties (particularly in the decisive property of elongation) occurred at temperatures up to 1 100 °C. Certain properties of this new steel justify the assumption that in many cases it will be not only a good substitute for the steel CSN 17 241 and 17 242 but for certain applications it will even be superior to these steels. For instance, the higher strength values will enable maintaining a higher

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polish and a better resistance to abrasive wear. Furthermore, the higher strength of the material will enable reducing the weight by using thinner and lighter sheets. On the other hand, due to the higher strength values, manual forming operations of thicker sheets will be more difficult. The results of tests of the influence of cold-forming indicate an entirely new and wide field of application for these steels as a material for special hardenable austenitic steels. Introsubstituting duction of this stainless economy steel with only half the usual nickel content as compared with current types of CrNi steel is of very considerable economic importance. This steel is now being manufactured by SONP, Kladno and VZKG, Ostrava, and the Trinecke zelezárny VRSR (Trinec Irons works VRSR) also intend to start manufacturing this steel. A specification is being drafted for the manufacture of a CrMnNiN steel (CSN 17 460), with the following proposed composition: max. 0.12% C, 7.5-10.5% Mn, max. 1.00% Si, 16.0-19.0% Cr, 4.0-6.0% Ni, 0.15%-0.30% N, max. 0.060% P and max. 0.035% S.

Card 6/12

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State of Development

There are 9 figures, 5 tables and 6 references: 5 Czech and 1 non-Czech.

ASSOCIATION: Výzkumný ústav hutnictví železa, Praha (Research Institute for Ferrous Metals, Prague)

(Abstractor's note: key to Tables 3, 4 and 5 on card 12/12)

Card 7/12

SOLC, Juraj, inz., CSc.; PALKA, Milan, inz.

Load tests of an anchored V-shaped supporting pillar for 400 kv lines. Energetika Cz 14 no.2:60-62 F'64.

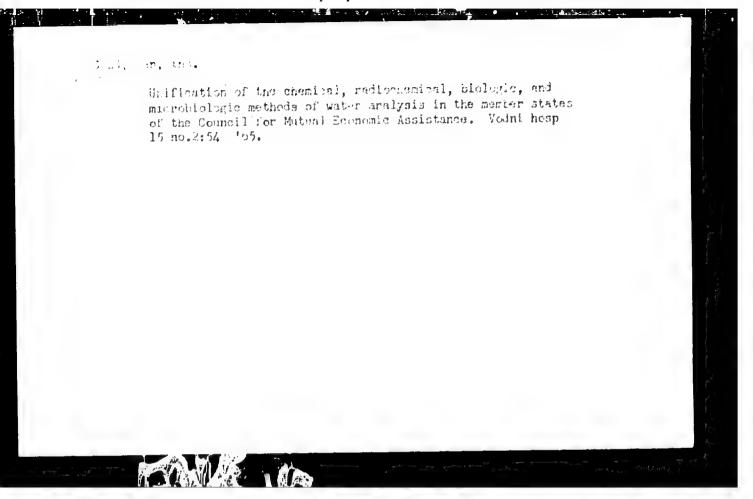
1. Slovenska vysoka skola technicka, Bratislava (for Solc).

2. Elektrovod, n.p., Bratislava (for Palka).

SOLC, Jan, inz.; STANKA, Karel, inz. dr.

Conditions of the research and production of tools for extrusion of nonferrous metals in Czechoslovakia. Hut listy 19 no.5:337-349 My '64

1. Research Institute of Iron Metallurgy, Prague.



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SOLC, J.; SOLC, J.

Experience with film dosimeters. Cesk. radiol. 19 no.6:415-418
E '65.

1. Rentgenologicke oddeleni nemccnice v Semilech; Dioptra, n.p.,
Turnov.

L 34469-66

ACC NR: AP6026242

SOURCE CODE: CZ/0024/65/000/007/0173/0175

AUTHOR: Solc, Juraj (Engineer; Candidate of sciences)

26

ORG: Department of Geodesy, SVST, Bratislava (Katedra geodezie SVST)

TITLE: Error of the multiplication constant of a wire telemeter

SOURCE: Geodeticky a kartograficky obzor, no. 7, 1965, 173-175

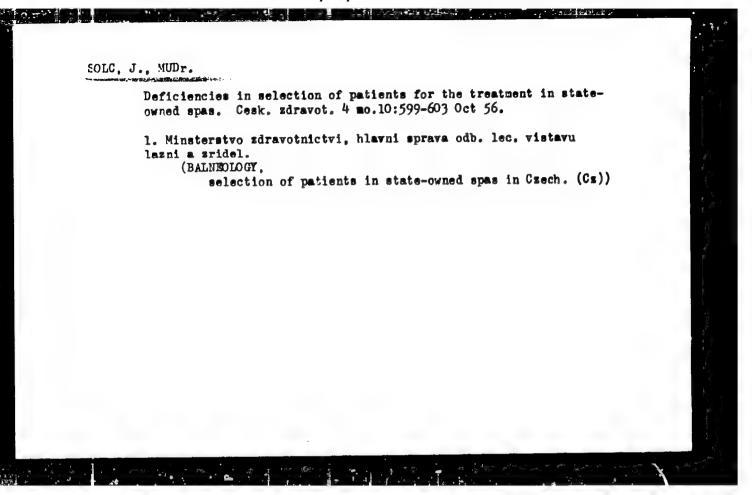
TOPIC TAGS: telemetry equipment, theodolite

ABSTRACT: The article reports the results of tests of 20 new theodolites to determine the difference between the rated and actual values of the multiplication constant. Significant differences were found. The need to check each new telemeter before using it for measurements is pointed out. This paper was presented by Engineer, Doctor Karel Kucera, VUCTK, Prague. Orig. art. has: 3 figures, 8 formulas and 2 tables. [JPRS: 32,859]

SUB CODE: 08, 09 / SUBM DATE: none / ORIG REF: 004 / SOV REF: 001 OTH FEF: 003

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UDC: 528.088.22:531.719.24



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FISAROVA, M.; MACHULA, Fr.; SOLC, J.

Neurological sequelae of severe diarrheas in infants. Cesk. pediat. 17 no.10:874-880 0 462.

l. Neurologicka klikika lekarske fakulty Karlovy university v Plzni, prednosta prof. dr. V. Pitha Detska klinika lekarske fakulty Karlovy university v Plzni, prednosta doc. dr. J. Lukes.

(DIARRHEA INFANTILE) (PARALYSIS) (HYDROCEPHALUS)

"Automatic sharpening in reproduction dark-rooms." Technicka Fraca, Eratislava, Vol. 6, No. 1, Can. 1954, p. 54.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

Marie Company of the
Sole, W.

CZECHOSLOVAKIA/Optics/- Optical Technology

K-4

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11659

Author : Solc J.

Inst : Higher Institute for Minerals, Tarnuv, Czechoslovakia

Title : Increase of Contrast in Microscopes

Orig Pub : Jemna mech. a opt., 1956, 1, No 4, 125-126

Abstract : Description of a principle of a new device for increasing the

contrast in microscopes. In the rear focus of the microobjective is installed a plate direct light and passes the light diffracted by the microscopic objectives through ring-

like differently colored bands.

Card : 1/1

SOLC, J.

"Hungarian optical plants."

JEMNA MECHANIKA A OPTIKA. Praha, Czechoslovakia, Vol. 4, February, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, September 1959. Unclas.

SOLC, Juraj, inz.

The test of precision and economy of coordination nonogram.
Geod kart obzor 2 no.3:45-48 Mr '56.

1. Slovenska vysoka skola technicka, Bra' slava.

PALKA, Milan, inz.; SOLC, Juraj, inz.

Construction of electric lines in high mountains. Good kart obzor 8 no.2:33-35 F '62.

The total of the party of the second distriction of

1. Elektrovod, n.p., Bratislava (for Palka). 2. Katedra geodezie, Slovenska vysoka skola technicka, Bratislava (for Sloc).

BOJSA, Miroslav; (KOHUT, Frantisek, inz.; SOLC, Juraj, inz.

Mechanical tests of a new pole for extra-high-voltage lines.
Energetika Cz 12 no.12:646-647 D '62.

SOIC, J.; Technicka spoluprace: KRAFTOVA, I.

Excretion of ketone bodies in the urine of children. Cesk.
pediat 18 no.6:481-486 Je 163.

1. Detska klinika lekarske fakulty KU v Plzni, prednosta doc.
dr. J. Lukes. (KETONE BODIES) (URINE)

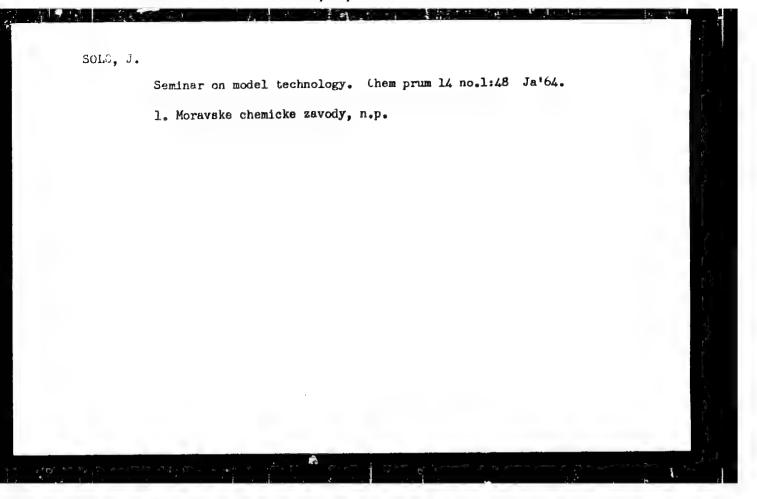
SOIC, J.; KRAFTOVA, I., technicka spoluprace; KOSTKOVA, E., technicka spoluprace.

Ketosis in fasting in children. Cesk pediat 18 no. 3:220-227
'63.

1. Detska klinika lekarske fakulty KU v Pizni, prednosta doc. dr. J. Lukes.

(PASTING) (BLOOD SUGAR) (RESPIRATORY FUNCTION TESTS)

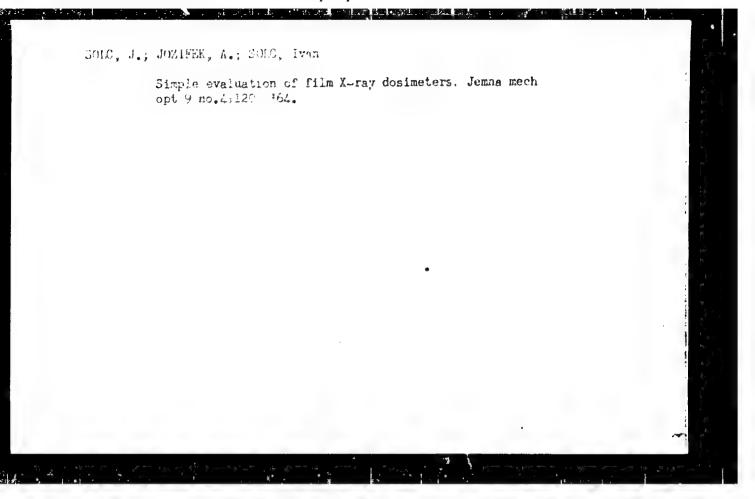
(FATTY ACIDS) (ICE TONE BODIES) (ACIDOSIS)



SOLC, J. Technicka spoluprace: KRAFTOVA, I.

Ketosis in febrile disease. I. Glycemia, pyruvic, acid, lactic acid, alphaglutaric acid, nonesterified Patty acids and ketonemia in fever. Cesk. pediat. 19 no.7:577-584 Jl'64

1. Detska klinika lekarske fakulty KU [Karlovay university] v Plzni; prednosta: doc. dr. J.Lukes.



ACCESSION MR: AP4035364

z/0034/64/000/005/0337/0349

AUTHOR: Sole, Jan (Engineer) (Shol'ts, I.); Stanka, Karel (Doctor of engineering) (Stan'ka K.)

TITLE: The situation in the manufacture and testing of tools for extrading non-ferrous metals in the Czechoslovak SSR

SOURCE: Hutnicke listy, no. 5, 1964, 337-349

TOPIC TAGS: extruder, durability, stellite, extruder lining, hard alloy, ceramic, vertical press, horizontal press, articulated profile

ABSTRACT: The article discusses the prime importance of the durability of extruders, and three basic ways of prolonging their life; new materials and their working; the advantages and disadvantages of stellites; extruder linings of hard alloys and ceramic materials; the success of the Cr₂C₂type hard alloys; and problems of extruders for articulated profiles. Separate sections deal with: the stresses on the different parts of extruders; the choice of materials for them; extruders with 1) conical plunger, 2) for vertical tube presses, with usually six alternating extruders, 3) for horizontal presses, 4) with ceramic linings.

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ACCESSION AR: AP4035364

5) for articulated profiles. The authors discuss at considerable length the results of practical shep tests of foreign and Czechoslovak material. Orig. art. has: 15 figures and 14 tables.

ASSOCIATION: Vyzkumny ustav hutnictvi zeleza, Prague (Experimental Institute for Ferrous Metallurgy)

SUBMITTED: 00

DATE ACQ: 20May64

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

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Card 2/2

APPROVED FOR RELEASE: 08/25/2000

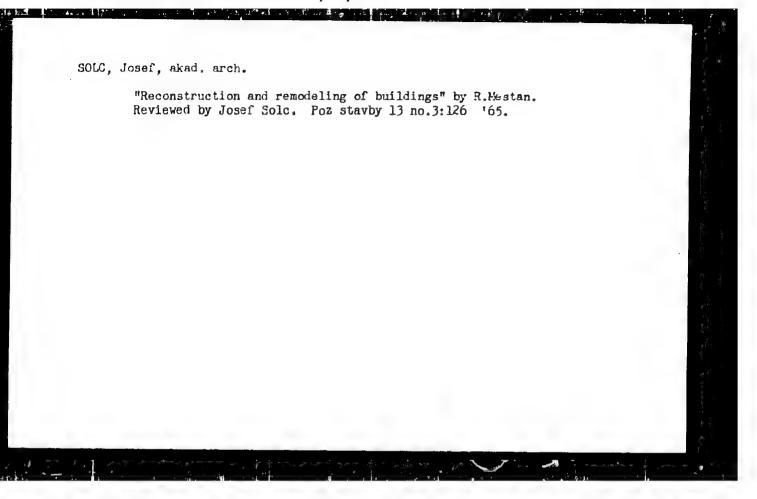
CIA-RDP86-00513R001652210001-3"

SOLC,J.; BERKA,J.; TOMICEK,J.

Pressure syringe for angiography. Cesk. rentgen. 18 no.3:
21,-215 My'64.

1. Rentgenologicke oddeleni nemocnice v Semilech; Technometra, n.p. v Semilech.

Technical and sconomic conference of the Fasedostav National Enterprise, Prague, on the remodeling and modernization of dwelling houses. Poz stavby 13 no.1:41 '65.



SULC. K

z/008/60/000/02/014/015 E034/E416

AUTHORS:

Jaroslav Nývlt and Karel Šolc

TITLE:

Theory of Non-Electrolyte Solutions. \ Low Molecular

Solutions

PERIODICAL: Chemické listy, 1960, Nr 2, pp 171-216

This long review is arranged as follows: ABSTRACT:

Introduction (p 171) (Ref 335,7,336,92,153,229,230, 236,275,74,102,60,96,336,148,110,275,245,346,82,58,18,97, 74,75,154,220,109,277,207,118,120,148,60,158,334,254,95,

124, 125, 26, 336, 237, 85, 329, 304, 344, 151, 117, 270). Intermolecular forces (p 173): The structure and properties of solutions are a result of intermolecular forces in liquids which depend on the form and intensity of strong particle fields. The fields are formed either by strong attraction or strong repulsion. Both are dealt with. Forces of attraction: (Ref 336,209,210,95, 154,174) - Orientation effect: Eq (1.1) and Ref 166 to Induction effect: Eq (1.2) and Ref 63,64,80.

Dispersion effect: Eq (1.3) and Ref 209 to 213, 192, 154, Forces of repulsion: Eq (1.4) and (1.5) and

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

Ref 336,44,131,328,140,243,145,212,142,54,240,241,307, Complete potential functions: Eq (1.6) to (1.26) and Ref 154,278,200 to 203,188,324,341,336,111,170,297, 154, 18, 127, 47, 340, 9, 10, 114, 242, 217, 352, 156, 327, 246. Fig 1: Rigid sphere model. Fig 2: Point centre Fig 3: Right-angle potential. repulsion model; Fig 5: Lennard-Jones Fig 4: Sutherland potential. Fig 6: Original Buckingham potential. potential. Fig 7: Corrected Buckingham potential. 2. Thermodynamic description of solutions (p 178): Eq (2.1) to (2.17) and Ref 248,277,95,148,95,73,124. 2.1 Ideal solutions (p 180): Eq (2.18) to (2.28) and Ref 206,207,254,287,358,157,205,70,119,122. 2.2 Non-ideal solutions: Eq (2.29) to (2.47) and Ref 204,158,73,124 to 126,288 to 290,336,95,318,206, 315, 319, 133, 148, 267, 50, 221, 195, 197, 118, 228, 225, 3, 4, 119, Fig 8: Graphic determination of partial 121,123,365. molar volumes of dimensions $\overline{AC} = \overline{X}_2$, $\overline{BD} = \overline{X}_1$. Fig 9: Concentration dependence of additive function

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

Card 3/11

for benzene-cyclohexane mixtures. Fig 10: Concentration dependence of additive function for benzene-methanol Fig 11: Concentration dependence of additive function for chloroform-ethanol-mixtures. 3. Thermodynamic theory of solutions. Eq (3.1) to (3.4) 3.1 Dolezalek chemical theory (p 183): and Ref 65,247,148,66,148,357,336,137,148,81,343. 3.2 Physical theory (p 184): Eq (3.5) to (3.14) and Ref 350,85,95,336,351,28,29,146,194 to 198,33,148,199,148. 3.3 Theory of regular solutions (p 185): Eq (3.15) to (3.42) and Ref 138, 139, 141, 143, 145, 148, 149, 322, 346, 316, 317,68,315,319,32,367,5,6,330,331,258,321,95,2,360, 33,148,69,326,366. Structure and statistical description of liquids 4. (p 188): Ref 335,336,190,336,103,67,190,95,61,62,169, 239,368,145,27. Fig 12: Typical curves for X-ray scattering. (a) gaseous state of aggregation; (b) liquid state of aggregation; (c) crystalline substances. Statistical description of set of particles partition function (p 189). Eq (4.1) to (4.23) and

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Low Molecular Solutions Theory of Non-Electrolyte Solutions. Ref 275, 37, 336, 260, 93, 110, 346, 336, 84, 48. 5. Theorem of corresponding states (p 191). Eq (5.1) to (5.6) and Ref 261,262,148,263,293,362,158,298. 6. Theory of conformal solutions (p 192): Eq (6.1) to (6.12) and Ref 214,46,56,336,275,45,295,216,215,12. Lattice theory of solutions (p 193). Ref 148.
 Theory of one dimensional solutions: Ref 89,132, 173, 171, 281, 282, 347, 116, 160, 187, 337. 7.2 Rigorously regular solutions: Eq (7.1) to (7.5) and Ref 336,71,346,110,148,106,120,104,106,110,320. (a) Null approximation: Eq (7.6) to (7.12) and Ref 107,110,104, 107, 129, 198, 267. (b) Quasichemical manipulation (first approximation) and Bethe's method (Ref 110): Eq (7.13) to (7.21) and Ref 250, 110, 104, 303, 30, 105, 257, 325. (c) Higher approximations and Kirkwood's method of moments: Eq (7.22) to (7.26) and Ref 110,112,113,180, 306, 31, 52, 180, 353, 14, 134, 135, 136, 159, 171, 172, 191, 193, 256,356,57,115,108,162 to 164. (d) Effect of molecular orientation: Ref 345,252,13,15,16,21,22,336. 7.3 Cellular theory (p 197): Eq (7.28) to (7.54) and

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

Ref 291, 89, 101, 201, 325, 18, 51, 275, 77, 78, 202, 17, 19, 59, 98, 101, 130, 275, 292, 341, 200, 181, 275, 294, 363, 150, 154, 278, 359, 203, 34, 299, 226, 227, 279, 283, 285, 295, 145, 218, 148, 86 to 88,72,265,18,280,181,34,53,79,90,91,155,175,176, 235, 255, 259, 299, 339, 354, 36, 55, 99, 20, 4, 173, 276, 338, 266, 272,279,283,296,308,309,311 to 313. Fig 13: Scheme for derivation of potential energy in a cellular model. Fig 14: Scheme of cell for rigid sphere model. Average potential model (p 202): Ref 274. Conde approximation: Eq (8.1) to (8.17) and Ref 275. Refined version: Eq (8.18) to (8.22) and Ref 2,5,272 to 274,322,189,223,224,253,269,24. Molecular distribution function method (p 205): Eq (9.1) to (9.18) and Ref 244,38 to 41,98,100,151,152, 154,165,174,177,179,182 to 186,208,233,234,237,238,275, 301, 302, 305, 314, 332, 185, 35, 314, 48, 310, 1, 161, 10. Globular molecules (p 207): Eq (10.1) to (10.3) and Ref 275, 262, 298, 300, 8, 295, 128, 296, 342, 11, 348, 349, 264, Conclusion (p 208): The review is said to be an attempt to give a critical survey of the most important

Theory of Non-Electrolyte Solutions. Low Molecular Solutions

theories of solutions of low molecular non-polar non-electrolytes. The approach is historical dealing with the simplest theories first and finally with markedly complicated ones developed in the last few years. The review shows that the situation is unsatisfactory at present: this results from the complexity of the models of liquid solutions. Where the theory has been worked out, only the simplest molecules conform to theory (Ar, Ne, N2, CO etc and in certain cases C6H6, cyclohexane, CCl4 etc) - the more complicated systems are still interpreted on essentially a semi-empirical basis. In the mutual comparison of individual theories it is necessary to remember that the simplest theories, despite their semi-empirical character and insufficient molecular explanation of parameters have, on the whole, the greatest practical significance and, precisely because of their simplicity, are partially utilized in the correlation of experimental data and in the description of solution behaviour (except P-V-T relationships). On the other hand newer,

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

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more exact theories give a complete description of a system, including volume behaviour, with disproportionately better results. However, because of its complexity and mathematical difficulty it has been, so far, only occasionally used in practice. At the present time, it has more of a theoretical significance because it results in detailed relationships between macroscopic and molecular properties and not only allows description but explanation of the behaviour of solutions. Symbols used: a van der Waal's constant calculated for l mol; a' constant; A coefficient; b van der Waal's v constant calculated for 1 mol; b constant; b distance from centre of molecule to centre of cell; b' constant; c molarity; c,c constants; crr density of cohesive energy; d average distance from centre of two molecules; d geometrical parameter for globular molecule; e Euler number; E molar internal energy; f fugacity; energy parameter of theory of conformal solutions; molar free energy; g dimensional parameter in theory of conformal solutions; gk statistical weight;

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions $g(\underline{r})$ radial distribution function; G molar free enthalpy; Grs integral; h Planck constant; H molar enthalpy; i designation of molecules; I intensity of light rays; j designation of molecules; j constant for Lennard-Jones potential; k Boltzmann constant; k constant for Lennard-Jones potential; $K_{\mathbf{H}}$ Henry constant; $K_{\mathbf{r}}$ equilibrium constant of and hearly constant; are equilibrium constant of solvation; L length; m number of peripheral atoms of globular molecule; n number of moles; n exponent in repulsing term; N Avogadro number; N number of molecules; p thermodynamic probability; pr vapour tension of r-th component above solution; pro vapour tension of pure r-th component at same temperature; P pressure; Pint internal pressure; $p(h)(\underline{r_1},...,\underline{r_N})$ specific distribution function; effect molar volume; qr partition function of molecular type r; Q molar partition function; r component designation; r distance; r* length coordinate of minima of Lennard-Jones potential; r space coordinate; R gas constant; Card 8/11

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

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 $R^{(h)}(\underline{r_1},\ldots,\underline{r_N})$ generic distribution function; component designation; S molar entropy; T absolute temperature; u molecular potential energy; ux energy coordinate of minima of Lennard-Jones potential; u(r) potential function; $\overline{u}(b)$ $\overline{zu}(b)$ = average potential energy of particle at distance b from the cell centre; U molar potential energy; v molecular volume (= V/N); $v_{\mathbf{f}}$ free volume; $v_{\mathbf{molar}}$ volume; $v_{\mathbf{f}}$ space rectangular coordinate; xr molar fraction of r-th component; X extensive dimension; X+ apparent molar properties; X zX = number unhomogeneous pairs in lattice; y rectangular space coordinate; z rectangular space coordinate; z coordination number of lattice; z_r effective volume fraction; a polarizibility; α thermal expansibility; β parameter; β isothermal compressibility; γ geometric lattice factor; Yr activity coefficient; [parameter; δ_{r} solubility parameter; ϵ energy parameter; Bethe parameter; of angle; energy parameter;

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Theory of Non-Electrolyte Solutions. Low Molecular Solutions

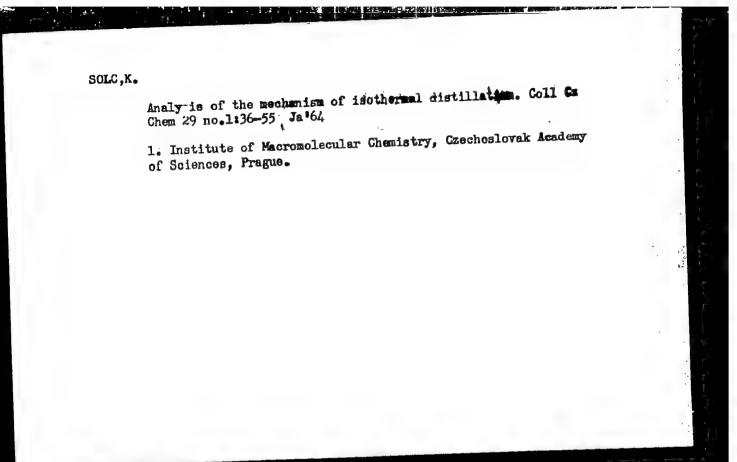
polar coordinate; λ wave length; λ_r absolute activity; μ dipole moment; μ_r chemical potential; basic frequency; Z large partition function; II osmotic pressure; @ molecular dimensional parameter; $Q(h)(\underline{r_1},...,\underline{r_h})$ generic distribution function in large canonical set; o average spherical molecular; φ_r volume fraction of r-th component; Φ universal reducer of partition functions; χ lattice potential energy allocated to one particle; ψ universal potential function in the theorem of corresponding states; w exchange energy; ▼ operator; X without index dimension concerned with solution; Xr concerned with pure r-th component; Xij concerned with molecular pair i-j; Xo concerned with reference substances; \overline{X}_r partial molar dimension; \overline{X} eccentricity value; X reductor parameter; (X) average interaction parameters or reduced dimensional in solution; XM mixed function; XE additive function; Xº in standard state; XV evaporation value;

Card 10/11

SOLC, K.; ERDOS.E.

Absolute isothermal distillation method of determination of osmotic pressure. Coll Cz Chem 29 no.1:24-35 Ja*64

I the second of the second
1. Institute of Macromolecular Chemistry and Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.



SOLC, I.

SOLC, L. Production of lard in the Polish People's Republic. p. 377. Vol. 7, no. 8, 1956. PRUMYSL POTRAVIII. Praha, Czechoslovakia.

SOURCE: East European Accessions List (BEAL) Vol. 6, No. 4--April 1957

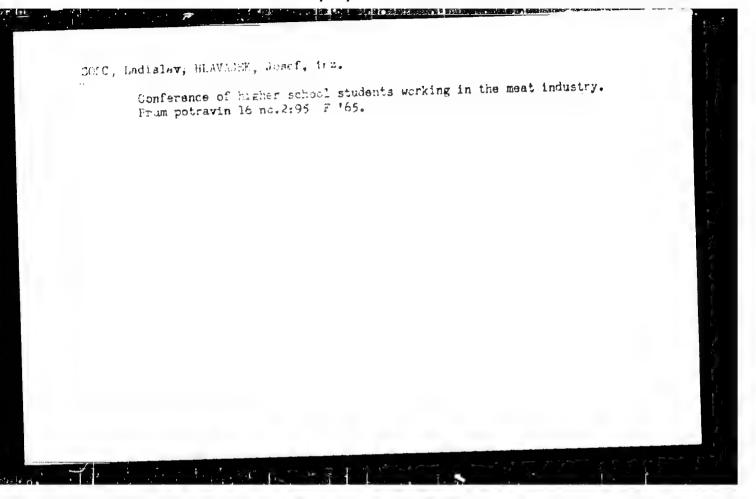
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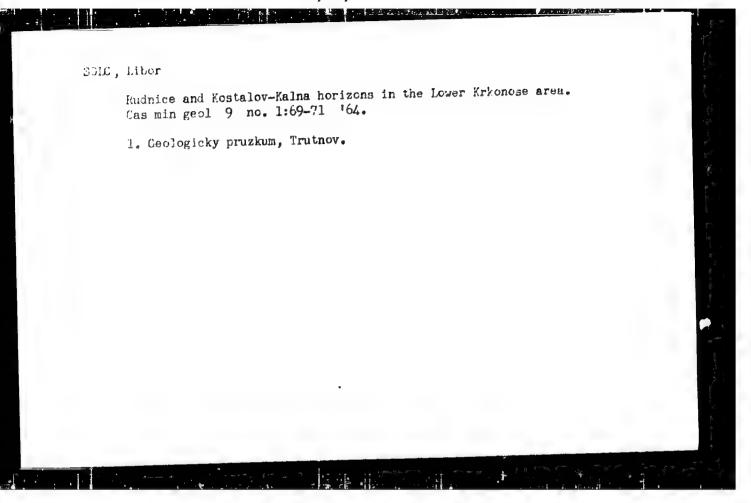
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Periodicals: CESKOSLOVENSKY CASOPIS PRO FYSIKU. Vol. 8, no. 6, 1958

SOLC, L. X-ray spectrograph for an exact control of the angle of crystal lattice planes. p. 739.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.





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SCLC, L.

Geological Institute (Geologicky pruzkum), Trutnov

Frague, Gaso, is pro mineralogii a geologii, No 1, 1964, pp 69-

"The Rudnice and Kost'alov-Kalna Zones in the Krkonose liedmont."

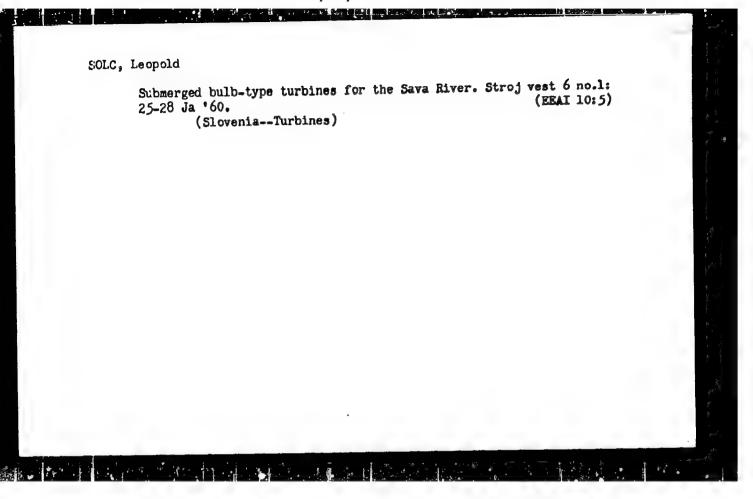
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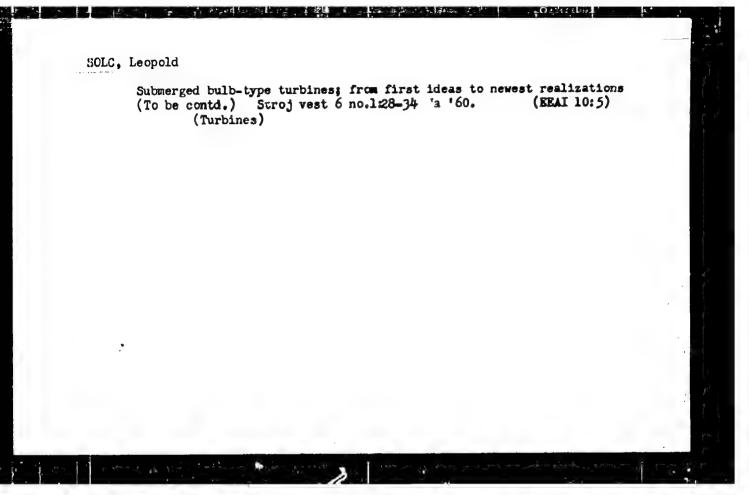
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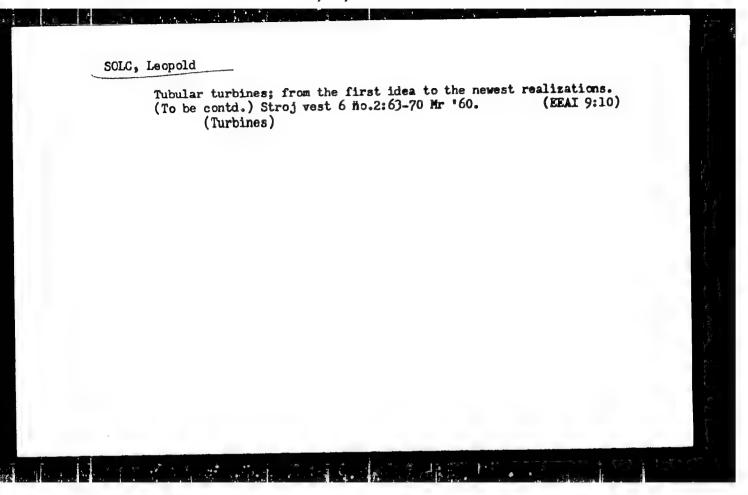
International resultations for testing water our ines. Perceila Litestroj. p. 149.

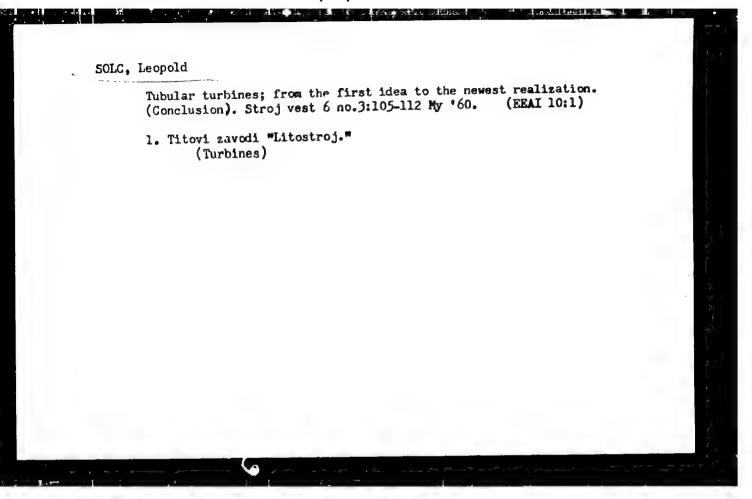
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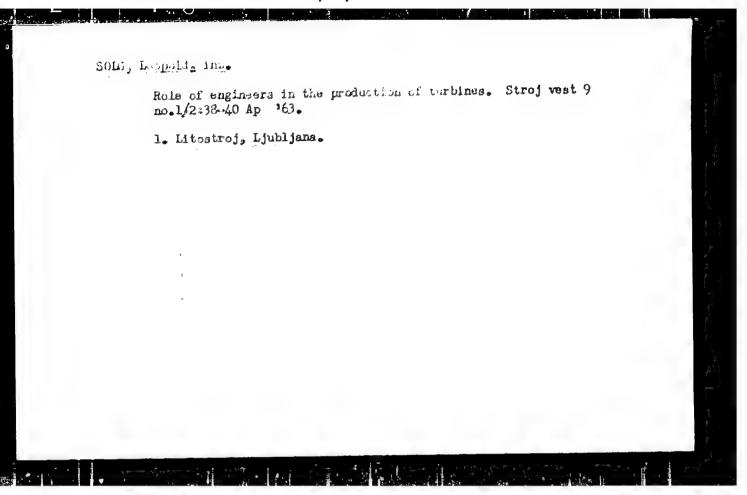
Monthly list of Bastern European Accession Index (ETAI) LC vol. 8, No. 11 November 1959 Uncl.







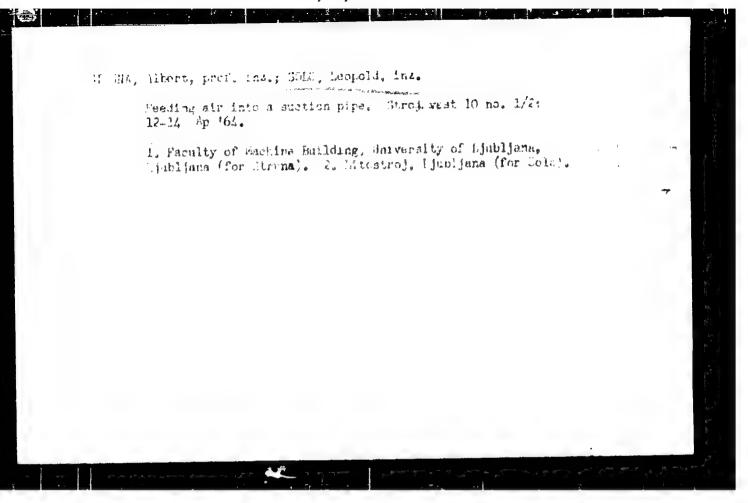




SOLC, Leopold, inz. projektant (Ljubljana, Dakoviceva 4/III)

Production of turbines in the Litostroj Works. Tehnika Jug
18 no.7:Supplement: Masinstvo 12 no.7:1292-1296a Jl.63.

1. Sef projektant za opremu hidroelektrana u "Litostroju",
Ljubljana.



SOLC, M.

Non-stable process of anodic oxygen separation in platinum. Coll Cz Chem 26 no.7:1749-1755 Jl '61.

1. Institut fur anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Platinum) (Omygen)

Section May be a section of the sect

šolc, M.

Czechoslovakia

Institute for Anorganic Chemistry, Czechoslovak

Collection of Czechoslovak Chemical Communi-

"Kinetics of the Hydration of Carbon Dioxyde to Methane on a Nickel-Chrom(III)-Oxyde Catalyst."

SOLC, M.; REGNER, A.

Poisoning of a nickel-chromium (III)-oxide catalyst by hydrogen sulfide. Coll 6: Chem 28 no.1:159-172 Ja *63.

1. Institut fur anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

Share the Parish and the Control of
Poisoning of a nickel-chromium (III)-oxide catalyst by carbon disulfide. Coll Cz Chem 23 no.11:2849-2853 N*63.

1. Institut fur anorganische Chemie, Tscher slowakische Akademie der Wissenschaften, Prag.

SOLC, Milos

Mechanism of mitric oxide oxidation to mitrogen dioxide. Chem listy 57 no.7:673-687 Jl 163.

1. Ustav enorganicke chemie, Ceskoslovenska akademie ved, Praha.

SOLC, M.; NUR, V.

Structure and texture of nickel-chromium (III)-oxide catalysts. Coll Cz Chem 29 no.4:857-862 Ap '64.

1. Institute of Inorganic Chemistry, Czechoslovak Academy of Sciences, Prague.

Sold, H.

Contribution to the kinetics and mechanism of nitric oxide oxidation. Coll C2 Chem 29 no.9:2227-2230 3 64.

L. Institute of Inorganic Chemistry, Czochoslovak Academy of Sciences, Frague.

SOLC, Milan

Use of differential calorimetry in the study of reaction kinetics and mechanism in gaseous phase. Chem listy 58 no.5:509-516 My '64.

1. Institute of Inorganic Chemistry, Czechoslovak Academy of Sciences, Prague.

CZECHOSLOVAKIA

SOLC, M.

Institute for Inorganic Chemistry, Czechoslovakian Academy of Sciences, Prague.

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3798-3803.

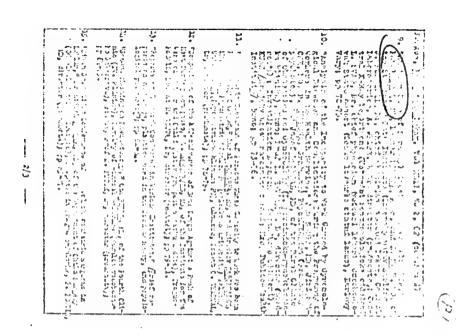
"Possibility of the elementary course of the reaction of nitric oxide. Wit 1 oxygen."

COLO, M.

firetics of reaction of mitric oxide with oxygen. Pt.l. Coll Cz Chem 30 no.1:257-264 Ja '65.

1. Institut für anorganische Chemie, Tschecheslowakische Akademie der Wissenschaften, Prague. Submittel March 19, 1964.

SOLC, PHUEL



849 - 853

Abstract /Authors' English summary modified 7: Occurrences of APPROVED FOR RELETASE 68/15/2000 erance related to the occurrence of bitter regurgitation, and the frequency 86,09513R661652216001-3" of 218 healthy university students is discussed. 2 Figures, 1 of 218 healthy university students is discussed. 13 Western, 4 Czech references. (Manuscript received Nov 65).

1/1

SOLC, P.; MOKRY, Z.; Nursing Home (Lecebny Ustav) Moskva, Czechoslovak State Spa (Cs. St. Lazni), Karlovy Vary, Head (Vedouci) Dr P. SOLC; Institute of Hygiene (Ustav Hygieny), Prague, Director (Reditel) Prof Dr K. SYHON.

"Different Tolorance of Cow's Milk and Its Manifestations in Gastrointestinal Diseases."

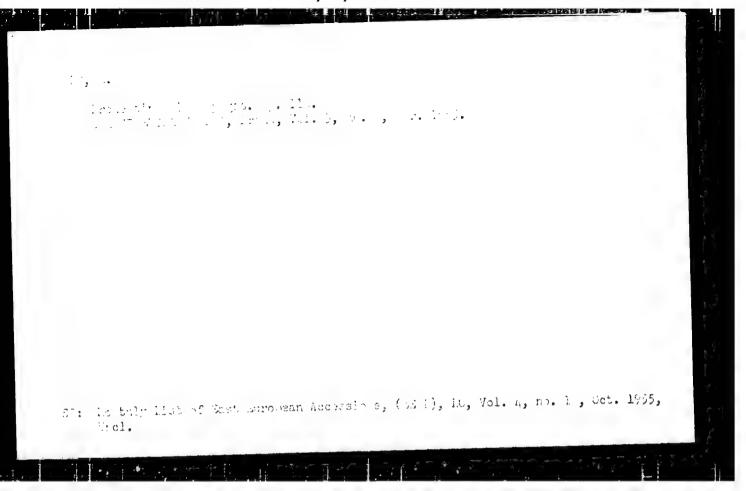
Prague, Casopis Lekaru Ceskych, Vol 105, No 34, 26 Aug 66, pp 915 - 921

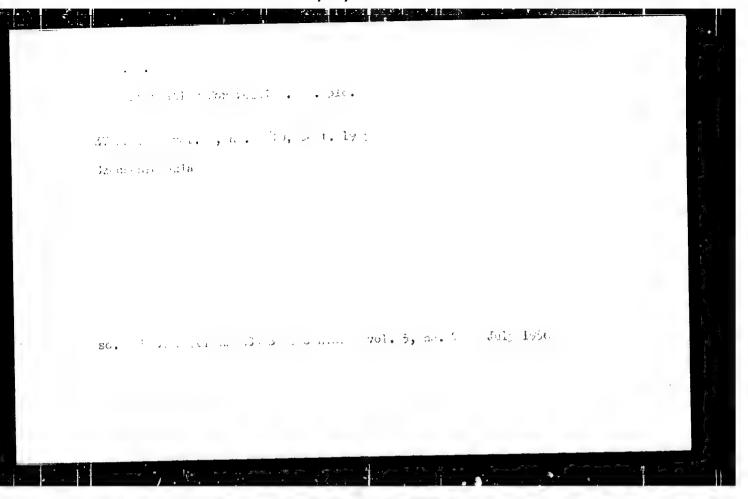
Abstract /Authors' English summary modified 7: Divisions of patients into different groups according to their tolerance of fresh and sour milk is discussed. Relation between the intolerance of fresh milk, patient's bitter regurgitation, and diarrhea tendency is described. Sour milk causes diarhea, but not regurgitation. 3 Figures, 3 Tables, 6 Western, 4 Czech references. (Manuscript received Nov 65).

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p. 206.

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Z/014/62/000/011/002/002 E192/E382

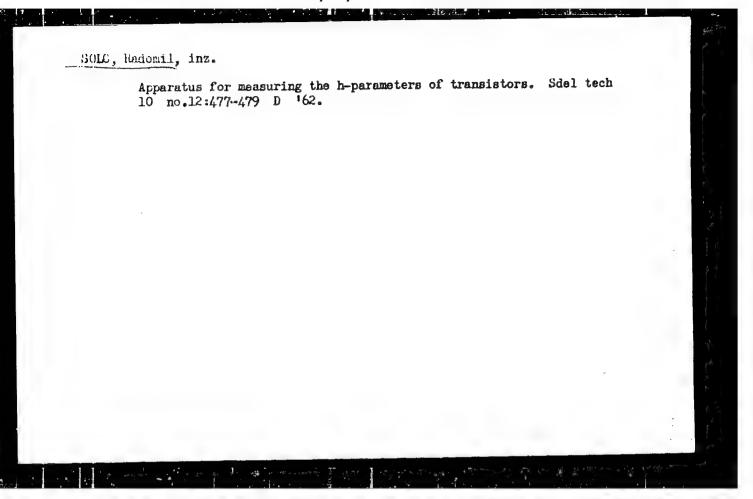
9.6000

Solc, Radomil, Engineer AUTHOR:

Transistor tester TESLA BM 372

Sdelovací technika, no. 11, 1962, 439 - 440 TITLE: This simple equipment permits measurement of the PERIGDICAL: $\alpha_{\rm E}$ of transistors in common-emitter connection TEXT: in common-base connection. current gain and the zero collector current IkOB The principal circuit is illustrated in Fig. 1, where an AC input signal is applied through a large resistance R_1 fied signal is rectified at the output of the current transformer. The output current measured by the meter is directly proportional to α_E if the input current is constant; The meter can therefore be directly calibrated in units of $\alpha_{\mbox{\footnotesize E}}$. The zero collector current is measured with the base grounded and the emitter opencircuited. The ranges for $\alpha_{\rm E}$ are 0 - 100 and 0 - 500, while the two ranges for $I_{\rm KOb}$ are 0 = 100 μA and 0 = 500 μA . Card 1/2

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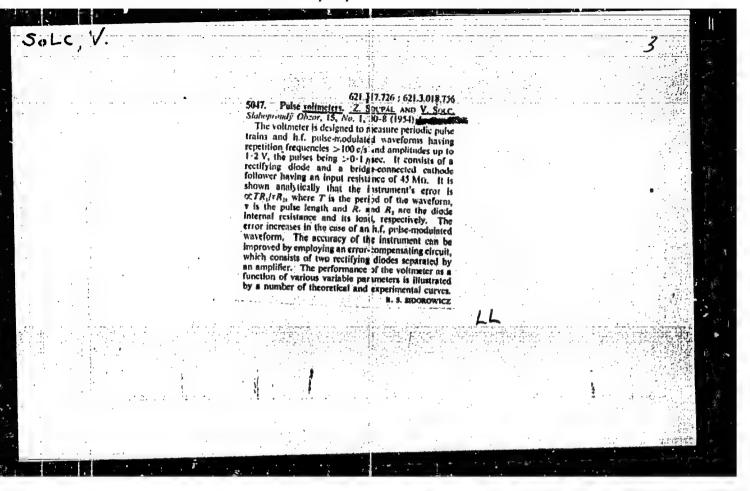


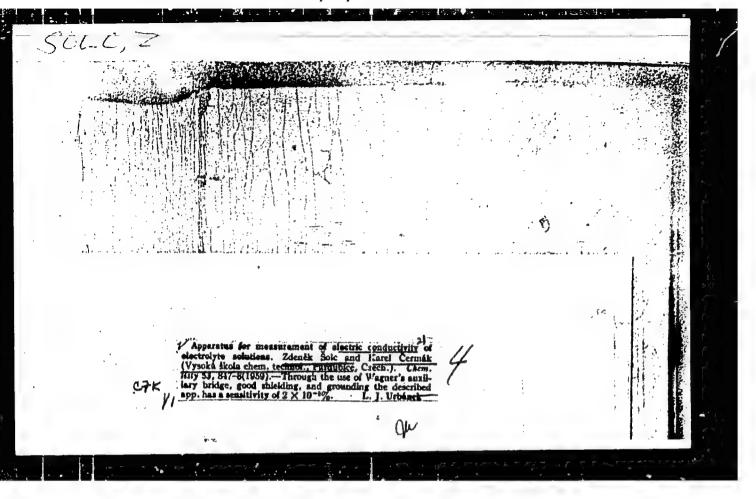
SOLC, V.

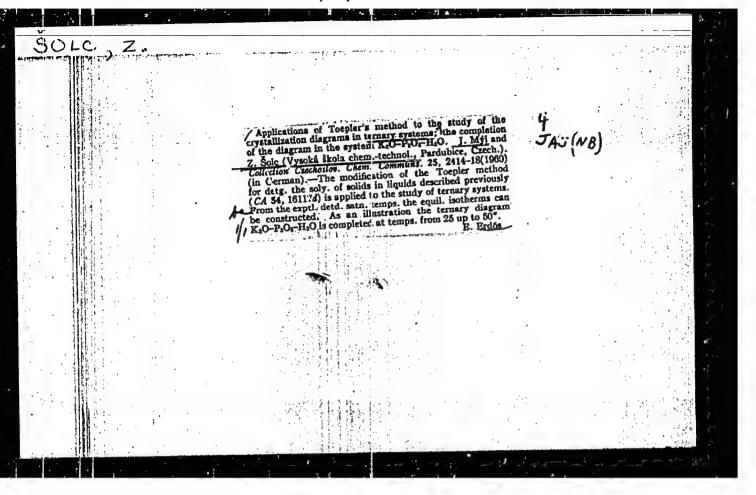
Transportation of fish on rafts.

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CERMAK, K.; SOLC, Zdenek

A simple device for measuring the thickness of thin films. Jemma mech opt 6 no.11:344 N *61.

1. Vysoka skola chemicko-technologicka, Pardubice.

c-4/Pr-4/Pi-	IT(1)/EWT(m)/EPF(c)/EWP IJP(c) JD/GG/RM	P(j)/T/EWP(t)/EEC(b)-2/EWP	(D)/EWA(C)		
ACCESSION NR:	AT5009582	Z/0000/62/000/00	0/0155/0157		
AUTHOR: Kvap	il, J. (Kvapil, Y.); Solo, Z	(Sholis, Z.)	47		
	g single crystals of trigiyo		B+1		
OUR.CE: Konfe	rence o monokrystalech. 4	th, Turnov, 1961. Sbornik ref	eratov. Turnov,		
UM, 1962, 155	-157				- 60
COPIC TAGS: t	riglycine sulfate crystal, c	rystal (rowth, single crystal			
BSTRACT: Af	ter reviewing previous wor	k on the composition of the tri	glycine sulfate		
olutions from w	hich TGS crystals are grow	wn, the present authors analyz	e the proportion		
f sulfuric acid	crystals grow in solutions	and find that this need not be varying; in proportion from 1:	2.5 to 1:3.5.		
how also studie	d the effect of heat on crys	tal growth and found that over	leating stabilizes		
he gativestion no	int after which gradual co	poling produces the first crysts	ds at the lower		
oundary of the	metastable zone. An elect	ronic source of time impulses I the coding rate. The many fa	ectors involved	444	
gtaniuin the sat n orvatal growt	h are described, including	saturation temperature, overl	eating temperatur	8	• ° 0
loon baltrag be	ing rate, machanical factor	ra auch as size and speed of m	ixing paddles		
	ypes of diffusion in the sol	lutions used. In growing TGP	erystals, it is		
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of declining temperatu	utomatic control in 3-1 re for each successive meter per day. Orig.	day, crystais with a ari. has: 5 figures	and 5 tables.	
a rate of 0.2 cm in dis	meet bor -a.		on an experience of the company	
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MYL, Jiri; SOLC, Zdenek; KVAPIL, Josef

Crystallization parameters of technically important salts. Sbor VSChT Pardubice no.1:89-96 '63.

1. Chair of Inorganic Technology, Higher School of Chemical Technology, Pardubice, and Research Institute of Minerals, Turnov.